FORM P W G -45 WORK SLIP

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Client: Bruhat Bangalore Mahanagar Palike

Item No.	Tender Item No.	Unit	As per BOQ			Executed beyond tender quantity up to 125%			Executed over & above 125% of tender quantity			As per actuals/Anticipated		Excess	Savings	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Amount	Amount	
1	Removing & Refixing stone slabs of drains and pointing in C M (1:3)as per the direction of Engineer in charge	Sqm	14306.31	111.00	1588000.41	10727.47	111.00	1190749.56	0.00	111.00	0.00	10727.47	1190749.56	~~41250.00~~	397250.85	
2	Excavation for road, drains and similar works Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface trimmed and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH Chapter 3 as per the direction of Engineer in charge	Cum	5042.62	230.00	1159801.68	6303.27	230.00	1449752.10	1976.42	238.12	470620.32	8279.69	1920372.42	760570.74	0.00	
3	Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No 408 KPWD S.R 2018-19 as per the direction of Engineer in charge	Cum	81.54	4400.00	358769.40	101.92	4400.00	448461.75	645.78	4879.59	3151150.29	747.71	3599612.04	3240842.64	0.00	
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC @ 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc , complete excluding cost of steel as per MORTH specification No 1700, 1700, 2200 including cost of materials, labour, HOM complete as per specifications Wall & bottom thickness 15cm as per the direction of Engineer in charge	Cum	209.72	7000.00	1468005.00	262.14	7000.00	1835006.25	97.10	7806.97	758093.39	359.25	2593099.64	1125094.64	0.00	
5	Providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing as position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per drsign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification MORTH Specification No 1600 & 2200 TMT Bars Fe 500as per the direction of Engineer in charge	Ton	28.08	72000.00	2021684.40	25.28	72000.00	1819920.96	0.00	72000.00	0.00	25.28	1819920.96	0.00	201763.44	
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications KBS 5 1 13&SRB 5 2-3 - do - cement mortar 1:6 KBS 5 1 13as per the direction of Engineer in charge	Sqm	95.40	4800.00	457920.00	47.16	4800.00	226368.00	0.00	4800.00	0.00	47.16	226368.00	0.00	231552.00	
7	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (queen, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I S 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications -do- with solid concrete blocks of size 400*200*200 mm as per the direction of Engineer in charge	Sqm	6279.20	900.00	5651280.00	6279.20	900.00	5651280.00	0.00	900.00	0.00	6279.20	5651280.00	0.00	0.00	
8	Providing raked pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications - do - cement mortar 1:3as per the direction of Engineer in charge	Cum	14678.40	150.00	2201760.00	14678.40	150.00	2201760.00	0.00	150.00	0.00	14678.40	2201760.00	0.00	0.00	
9	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications Specification No KBS 6.1.4 2&KBS No 5 4KBS 5 1 13as per the direction of Engineer in charge	Cum	506.72	5650.00	2862939.75	589.33	5650.00	3329714.50	0.00	5650.00	0.00	589.33	3329714.50	466774.75	0.00	
10	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc. complete as per the directions of the Engineer In Charge [0.9 x 0.60 x 0.1]Data rate as per the direction of Engineer in charge	Sqm	3017.49	2250.00	6789352.50	2508.70	2250.00	5644566.00	0.00	2250.00	0.00	2508.70	5644566.00	0.00	1144786.50	
11	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc. complete - do - 10 cms thick as per the direction of Engineer in charge	Sqm	904.84	960.00	868642.56	1131.05	960.00	1085803.20	531.98	976.39	519413.58	1663.02	1605216.78	736574.22	0.00	
12	Providing two line dressing to granite stone slab / granite stone masonry as per specifications KBS 5 1 13 as per the direction of Engineer in charge	Sqm	904.84	1550.00	1402495.80	1131.05	1550.00	1753119.75	528.08	1600.55	845208.86	1659.12	2598328.61	1195832.81	0.00	
13	Providing chamfering edges to stone slab 2.5 cms Wide as per specifications (only chamfered length shall be recorded) KBS 5 1 13 as per the direction of Engineer in charge	Sqm	4222.40	60.00	253344.00	524.00	60.00	31440.00	0.00	60.00	0.00	524.00	31440.00	0.00	221904.00	
14	Providing and Fixing RCC Precast Cover Slab of 250 mm Thick for Drains in Cement Concrete M-20 using graded granite Jelly of 20 mm and down size with steel Reenforcement, including form work lift charges, curing and concrete finished surface on both sides etc., as per drawing and the direction of Engineer-in-charge Data Rate as per the direction of Engineer in charge	Sqm	180.98	5400.00	977292.00	226.23	5400.00	1221615.00	346.36	5800.51	2009035.92	572.58	3230650.92	2253358.92	0.00	
15	Removing and resetting of kerb stones as per the direction of Engineer in charge	Rmt	6110.85	100.00	611085.00	5095.42	100.00	509541.50	0.00	100.00	0.00	5095.42	509541.50	0.00	101543.50	
16	Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc , complete as per the direction of Engineer in charge	Sqm	6236.00	460.00	2868560.00	7795.00	460.00	3585700.00	858.33	472.13	405248.87	8653.33	3990948.87	1122388.87	0.00	
17	Pasting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications MORTH Chapter 8as per the direction of Engineer in charge	Sqm	3566.80	80.00	285344.00	965.20	80.00	77216.00	0.00	80.00	0.00	965.20	77216.00	0.00	208128.00	
18	Fabrication supplying and erecting M S tubular trusses of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant Welding shall confirm to latest structural welding code Quality shall be on various parameters like shape, size, design gauge and polish The entire trusses is anchored in RCC column by using 4 nos of M S anchor bolts at each support with 10mm thick base plate and shoe plate The work includes cutting, straightening, placing in position of M S pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, hire, complete as per specification as per the direction of Engineer in charge	Sqm	43520.00	117.00	5091840.00	0.00	117.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	5091840.00	
19	Providing and fixing self-supported, ribbed, high quality, high grade (D 350 MPA Yst Min), pre- painted Galvalume steel roof sheet, coated with bare Galvalume coating AZ 150, @ 150 gms/Smtr 55%AL,43%Zn) by hot dip process , of total coated thickness as specified for different spans with a tolerance of +/- 0.02 mm, according to technical specification confirming to A 792, with NCCA B-1, or ECCA T4 Pencil hardness HB, NCCA standard T-Bend test. The roof should be fastened to the gutter beam, on the external sloping side, at an interval of 51mm Centre to Centre, to a depth of 65 mm with GI anchor bolts and neoprene washers & welding the gutter beam to Schmidt, Hammer test to ensure the anchorage of the anchor bolts The self-supported roofing system should be designed to with stand the wind load (As per IS 875 part-3) & Earthquake load (as per IS 1893) & the design should also comply with any other technical requirements such as turbo ventilators of 0.60 mts dia and skylights of size 4.26 x 0.60 mts fixed one in each row @ 10.00 Mtr C/C along the length & hangers for electrical fixtures as per the requirements including cost of all materials &labour for erection, all lead and lift, loading and unloading, HOM of machineries etc , complete	Sqm	726.00	2500.00	1815000.00	0.00	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	1815000.00	
20	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller or 10 t/m of modified proctors density MORTH Specification No 305 as per the direction of Engineer in charge	~~Cum~~	~~629.63~~	~~340.00~~	~~214072.50~~	~~787.03~~	~~340.00~~	~~267590.63~~	~~493.27~~	~~347.95~~	~~241221.13~~	~~1480.31~~	~~508811.76~~	~~294739.26~~	~~0.00~~	

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			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Amount	Amount	
21	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision as per the direction of Engineer in charge	Cum	1649.80	1990.00	3283110.96	1381.77	1990.00	2749727.28	0.00	1990.00	0.00	1381.77	2749727.28	0.00	533383.68	
22	Providing and filling sand in foundation to required depth for sub and treatment including watering ramming with all lead and lift Complete as per specifications specification No KBS 2.10.2as per the direction of Engineer in charge	Cum	303.67	2100.00	637700.70	303.67	2100.00	637700.70	0.00	2100.00	0.00	303.67	637700.70	0.00	0.00	
23	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of hippar to site, laying in uniform layers with paver in sub-base/base course on and prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications MORTH Specification No 406 as per the direction of Engineer in charge	Cum	1191.93	2000.00	2382666.60	1188.00	2000.00	2376008.00	0.00	2000.00	0.00	1188.00	2376008.00	0.00	6658.60	
24	Providing and applying primer coat with S S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications MORTH Specification No 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge	Sqm	5179.71	29.00	150211.59	5094.80	29.00	147749.20	0.00	29.00	0.00	5094.80	147749.20	0.00	2462.39	
25	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications Clause 501 of MORTH V revision No. 406 as per the direction of Engineer in charge	Sqm	35068.39	5.00	175341.95	35068.39	5.00	175341.95	0.00	5.00	0.00	35068.39	175341.95	0.00	0.00	
26	Providing and applying tack coat using 80/100 grade bitumenVG10 on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications MORTHChapter 5 as per the direction of Engineer in charge	Sqm	79255.80	12.00	951069.60	79255.80	12.00	951069.60	0.00	12.00	0.00	79255.80	951069.60	0.00	0.00	
27	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, layong to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications Clause 505 of morth V revision using 40/60 TPH capacity H M P with mechanical paver Gr-II (50mm to 75mm) with 4 5% VG-30 Bitumen PWD SR 2018-19 Issue Rates as per the direction of Engineer in charge	Cum	2481.87	7500.00	18614025.00	2481.87	7500.00	18614025.00	0.00	7500.00	0.00	2481.87	18614025.00	0.00	0.00	
28	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. - using40/60 TPH capacity H M P with Mechanical Paver Gr-II (30 mm to 40 mm) with 5 4% VG-30 Bitumen Issue Rates as per the direction of Engineer in charge	Cum	1785.31	8500.00	15175101.00	1785.31	8500.00	15175101.00	0.00	8500.00	0.00	1785.31	15175101.00	0.00	0.00	
29	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface - Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm a exclusive of surface applied glass beads as per IRC:35 The finished surface to be level, uniform and free from streaks and holes complete as per specifications MORTH Specification No. 803 as per the direction of Engineer in charge	Sqm	2701.13	450.00	1215506.25	2006.51	450.00	902927.25	0.00	450.00	0.00	2006.51	902927.25	0.00	312579.00	
30	Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and coarse sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqcm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications Specification No 8.8Sas per the direction of Engineer in charge	Sqm	5702.67	1100.00	6272937.00	3779.17	1100.00	4157087.00	0.00	1100.00	0.00	3779.17	4157087.00	0.00	2115850.00	
31	KSRB 14.13.4 Providing precast chequered mosaic tiles white colour for steps and flooring, 20mm thick, using marble chips of 7 to 10 nominal size laid on a bed of 12mm thick cement mortar 1:3 mix, and jointed with neat cement slurry mixed with pigment to match the shade of tiles rubbing, polishing, oxalic acid wash, tiles polish, including cost of materials, labour, curing, complete as per specifications Specification No KBS 14.13, 14.1 as per the direction of Engineer in charge	Sqm	77.50	1300.00	100750.00	0.00	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	100750.00	
32	Providing and fixing of wall cladding using 20mm thick giang new water cut Shiva gold granite, grey granite in Cm 1:3 proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making 5mmx12mm 12mm grooves in joints including cost of all materials, mortar, labour, curing etc , complete as per specification as per the direction of Engineer in charge	Sqm	37.44	3750.00	140400.00	0.00	3750.00	0.00	0.00	3750.00	0.00	0.00	0.00	0.00	140400.00	
33	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications MORTH Specification No. 2028 as per the direction of Engineer in charge	Cum	37.50	990.00	37125.00	0.00	990.00	0.00	0.00	990.00	0.00	0.00	0.00	0.00	37125.00	
34	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and trimming to toppers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications MORTH Specification No 301 as per the direction of Engineer in charge	Cum	2119.00	84.00	177996.04	1981.03	84.00	166406.31	0.00	84.00	0.00	1981.03	166406.31	0.00	11589.73	
35	Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0 8cucum and fine aggregates @0 58cum over a prepared sub-base, coarse and fine aggregate conforming to IS 383-2016 aggregate cement ratio not to exceed 15:1, Aggregate proportions after blending to be as per Table 600-1 optimum moisture content to be determined during trial laugh construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications Clause 601 of MORTH V Revision and IS 456 Table-5 do- with OPC at 150 kg/cum and coarse aggregate 0 8cum, fine aggregate 0 58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver as per the direction of Engineer in charge	Cum	257.15	3800.00	954370.00	217.35	3800.00	825930.00	0.00	3800.00	0.00	217.35	825930.00	0.00	128440.00	
36	Providing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0 69 cum, fine aggregates at 0 46 cum,Coarse and fine aggregate conforming to IS 383-2016, with Superplasticizer at 3 lts conforming to IS 9103-2008 mixed in a concrete mixer of not less than 0 6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel laying and fixing of 125 micron thick polythene film, wedges, templates including levelling the form work as per drawing) & Spreading the concrete with shovels, rackers etc, compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of construction, expansion, construction and longitudinal joints,including groove cutting and tar, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealer, admixtures as approved curing compound finishing to do- with OPC at 360 kg/cum and coarse aggregate 0 69cum, fine aggregate 0 46cum as per the direction of Engineer in charge	Cum	349.40	5263.00	1838879.04	315.60	5263.00	1660989.64	0.00	5263.00	0.00	315.60	1660989.64	0.00	177889.40	
37	Providing de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with existing fine trabelling mix of generates 70:30, of machinery, Screed Vibrator, Power Floats, Trials incl. Labr etc with all lead and lift as per the direction of Engineer in charge	Sqm	1378.95	70.00	100965.90	1000.95	70.00	70065.90	0.00	70.00	0.00	1000.95	70065.90	0.00	30900.00	

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38	Providing and fixing Chorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete (external work) 25mm nominal OD pipes as per the direction of Engineer- in charge	Mtr	150.50	185.00	27842.50	0.00	185.00	0.00	0.00	185.00	0.00	0.00	0.00	0.00	27842.50	
39	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundations of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, depressed earth to be levelled after breaking of clods and neatly dressed as per specifications specification No KBS 2 1(a) / 2 3 1as per the direction of Engineer- in charge	Cum	3.95	260.00	1026.48	3.95	260.00	1026.48	0.00	260.00	0.00	3.95	1026.48	0.00	0.00	
40	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications specification No KBS 2 1(b) / 2 3 5 as per the direction of Engineer- in charge	Cum	68.38	395.00	27008.52	68.38	395.00	27008.52	0.00	395.00	0.00	68.38	27008.52	0.00	0.00	
41	Providing and laying in position plain cement concrete of mix 1 3 6 with OPC cement @ 220kg/s, with clean and down size graded granite metal coarse aggregates @0 892cum and fine aggregates @ 0 465cum machine mixed, machine mixed; concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation excluding cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No KBS 4 1, 4 2 as per the direction of Engineer- in charge	Cum	10.95	5300.00	58017.11	10.95	5300.00	58017.11	0.00	5300.00	0.00	10.95	58017.11	0.00	0.00	
42	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1 6, stone harmered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications KBS 5 1 13 as per the direction of Engineer- in charge	Cum	23.31	4400.00	102564.00	23.31	4400.00	102564.00	0.00	4400.00	0.00	23.31	102564.00	0.00	0.00	
43	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1 6, edges of quoins chisels dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications KBS 5 1 13 as per the direction of Engineer- in charge	Cum	24.86	5300.00	131779.20	24.86	5300.00	131779.20	0.00	5300.00	0.00	24.86	131779.20	0.00	0.00	
44	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1 3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications as per the direction of Engineer in charge	Sqm	37.72	100.00	3772.00	37.72	100.00	3772.00	0.00	100.00	0.00	37.72	3772.00	0.00	0.00	
45	Providing and filling sand in foundation upto plinth to required depth for sub and treatment including watering ramming with all lead and lift complete as per specifications specification No KBS 2 10 2 as per the direction of Engineer- in charge	Cum	158.26	2100.00	332344.06	158.26	2100.00	332344.06	0.00	2100.00	0.00	158.26	332344.06	0.00	0.00	
46	Providing and injecting chemical emulsion for Pre- constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chlorpyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting w water to one percent concentration, labour, HOM of equipments, complete as per specifications (Plinth area of the building at ground floor only shall be measured) Specification No KBS 3 2 6 / 3 2 7 as per the direction of Engineer- in charge	Sqm	128.70	100.00	12870.48	128.70	100.00	12870.48	0.00	100.00	0.00	128.70	12870.48	0.00	0.00	
47	Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kg/, with 20mm and down size graded granite metal coarse aggregates @0 70 cum and fine aggregates @ 0 47cum, with super plasticizers @ 3 liters confirming to ie 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns/pillars, posts, struts, buttresses, bed blocks, anchor blocks & plintha etc , including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement a as per the direction of Engineer in charge	Cum	3.60	6500.00	23429.25	3.60	6500.00	23429.25	0.00	6500.00	0.00	3.60	23429.25	0.00	0.00	
48	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kg/s, with 20mm and down size graded granite metal coarse aggregates @0 70cum and fine aggregates @ 0 47cum, with superplasticizer @3ltrs confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc , including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications Specification No KBS 4 1, 4 6 as per the direction of Engineer- in charge	Cum	5.71	6740.00	38461.14	5.71	6740.00	38461.14	0.00	6740.00	0.00	5.71	38461.14	0.00	0.00	
49	Providing and removing centering, shuttering, strutting, propping etc , and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications Specification No KBS 4 6 2as per the direction of Engineer- in charge	Sqm	33.40	300.00	10020.00	33.40	300.00	10020.00	0.00	300.00	0.00	33.40	10020.00	0.00	0.00	
50	KBB 4 6 2 Providing and removing centering, shuttering, strutting, propping etc , and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications for heights more than 3 50m from ground level - 0 to 5 mtrs as per the direction of Engineer- in charge	Sqm	26.32	580.00	15265.60	26.32	580.00	15265.60	0.00	580.00	0.00	26.32	15265.60	0.00	0.00	
51	Providing and removing centering, shuttering, strutting, propping etc , for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications Specification No KBS 4 6 2 as per the direction of Engineer- in charge	Sqm	3.09	715.00	2209.35	3.09	715.00	2209.35	0.00	715.00	0.00	3.09	2209.35	0.00	0.00	
52	Providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications Specification No KBS 4 6 3 - TMT bars Fe 550 as per the direction of Engineer- in charge	ton	1.18	64000.00	75376.83	1.18	64000.00	75520.00	0.00	64000.00	0.00	1.18	75520.00	143.17	0.00	
53	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5 00 N/mm2 conforming to IS 2185 (Part) 2005 and constructed with CM 1 4 , as per IS 2572 2005 including cost of all materials, labour charges, scaffolding, curing complete as per specifications KBS No 5 4 as per the direction of Engineer- in charge	Sqm	60.33	990.00	59728.68	60.33	990.00	59728.68	0.00	990.00	0.00	60.33	59728.68	0.00	0.00	
54	Providing 10mm thick cement plaster on angle coat with cement mortar 1 6, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications as per the direction of Engineer- in charge	Sqm	74.43	200.00	14885.60	74.43	200.00	14885.60	0.00	200.00	0.00	74.43	14885.60	0.00	0.00	
55	Providing 15mm thick cement plaster in angle coat with cement mortar 1 4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications as per the direction of Engineer- in charge	Sqm	53.19	190.00	10106.10	53.19	190.00	10106.10	0.00	190.00	0.00	53.19	10106.10	0.00	0.00	
56	Providing 12mm thick cement plaster in angle coat with cement mortar 1 4, to ceiling including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications as per the direction of Engineer- in charge	Sqm	19.80	180.00	3564.00	19.80	180.00	3564.00	0.00	180.00	0.00	19.80	3564.00	0.00	0.00	
57	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications, as per the direction of Engineer- in charge	Sqm	72.99	26.00	1897.74	72.99	26.00	1897.74	0.00	26.00	0.00	72.99	1897.74	0.00	0.00	

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	Tender Item No.	Unit	As per BOQ			Executed beyond under quantity up to 125%			Executed over & above 125% of tender quantity			As per actuals/Anticipated		Excess	Savings	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Amount	Amount	
58	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications as per the direction of Engineer in charge	Sqm	72.99	75.00	5474.25	72.99	75.00	5474.25	0.00	75.00	0.00	72.99	5474.25	0.00	0.00	
59	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications , with primer as per the direction of Engineer in charge	Sqm	74.43	88.00	6549.66	74.43	88.00	6549.66	0.00	88.00	0.00	74.43	6549.66	0.00	0.00	
60	Providing and laying Hassan Green granite flooring for staircase, treads and risers using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1 3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, curing etc complete as per the direction of Engineer in charge	Sqm	23.76	4200.00	99792.00	23.76	4200.00	99792.00	0.00	4200.00	0.00	23.76	99792.00	0.00	0.00	
61	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31 75mm bottom section 1 3mm thick, weight 1 07kg/m, sides and top sections 1 3 mm, thick, weight 0 933 kg/m shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1 25mm weight 0 417 kg /m shutter side outer 40mmx18mm wall thickness 1 25mm weight 0 417 kg/m, shutter interlock section 40mmx26 7mm wall thickness 1 1 mm thick, weight 0 469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc , providing and fixing 5 5mm thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred andwelding the frame tensioned and riveted, in the assembled frame, stiffened with end clips for corners, angles etc , and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, rawl plugs or teak wood gutties including cutting masonry or concrete and making good the original surface	Sqm	0 72	4400 00	3168.00	0.72	4400.00	3168.00	0.00	4400.00	0.00	0.72	3168.00	0.00	0.00	
62	Providing and fixing M S Grill work for windows and ventilators weighing 21kg/sqm using M S Flats, or M S Squarod rods, or combination of M S Flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of all materials, fixtures, labour and HOM of machinery complete as per specifications as per the direction of Engineer in charge	Sqm	28.80	80.00	2304.00	28.80	80.00	2304.00	0.00	80.00	0.00	28.80	2304.00	0.00	0.00	
63	Providing and Applying enamel metal Paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter including cost of materials labour complete as per specification as per the direction of Engineer in charge	Sqm	1 44	85 00	122.40	1.44	85.00	122.40	0.00	85.00	0.00	1.44	122.40	0.00	0.00	
64	For roof slab & terraces Providing & applying water proofing to roof slab, terraces, landscape area, podium etc , using modified polyurethane cures (conforming to ASTM C836-84) to give a tough elastomeric waterproof membrane on the surface The surface shall be cleaned free from dust and other particle before usage standards & methodology This compound has a medium viscosity grade with 620% of elongation and shall be done either by roller application/brush application/ spray This will be applied for a thickness of 1 5mm first layer 0 5mm & 2nd layer 0 8mm After applying the 2nd layer sand sprinkle shall be done to provide mechanical key as per the direction of Engineer in charge	Sqm	26 32	740 00	19476.80	26.32	740.00	19476.80	0.00	740.00	0.00	26.32	19476.80	0.00	0.00	
65	Providing and fixing 1mm thick M S sheet garage door with frame and diagonal braces of size 40x40x6 mm angle iron, 3 15mm thick M S Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc , including applying a priming coat of red lead paint coat of materials, labour, HOM of machinery complete as per specifications Double leaf door of size 2 4x2 4m Specification as per the direction of Engineer in charge	Sqm	7 14	2450 00	17493.00	7.14	2450.00	17493.00	0.00	2450.00	0.00	7.14	17493.00	0.00	0.00	
66	Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kankar / Moorum Placing tipper at loading point, loading with front end loader dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications Cost of Haulage Excluding Loading and Unloading MORTH - 100 Chapter 1 Case-1 Surface Road as per the direction of Engineer in charge	Cum	36 16	106 00	3833.17	36.16	106.00	3833.17	0.00	106.00	0.00	36.16	3833.17	0.00	0.00	
67	Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1 2 4 and finished with CM 1 3 plastering and finishing cutting etc , complete as per the direction of Engineer in charge	No's	830 00	450 00	373500.00	830.00	450.00	373500.00	0.00	450.00	0.00	830.00	373500.00	0.00	0.00	
68	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications MORTH Chapter 8 as per the direction of Engineer in charge	Sqm	149 32	84 00	12542.88	149.32	84.00	12542.88	0.00	84.00	0.00	149.32	12542.88	0.00	0.00	
69	Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand by manufacturer of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints onto its final level, including cost of materials, labour and HOM of machineries complete as per specifications Specification No KB as per the direction of Engineer in charge	Sqm	1003 51	1162 00	1166078.62	1003.51	1162.00	1166078.62	0.00	1162.00	0.00	1003.51	1166078.62	0.80	0.00	
70	Providing process chequered mosaic tiles white colour for steps and flooring, 20mm thick, using marble chips of 7 to 10 nomonal size laid on a bed of 12mm thick cement mortar 1 3 mix, and jointed with neat cement slurry mixed with pigment to match the shade of tiles rubbing, polishing, oxalic acid wash, wax polish, including cost of materials, labour, curing, complete as per the direction of Engineer in charge	Sqm	332.00	1300 00	431606.18	332.00	1300.00	431606.18	0.00	1300.00	0.00	332.00	431606.18	0.00	0.00	
71	Fabricating, supplying & erecting M S Angular Truss for all spans as per approved designs and drawing The entire truss is anchored suitably by using 4 Nos of M S anchor bolts at each support, with base plate and shoe plate The work includes cutting, straightening, placing in position of M S angle and welding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection requirements, etc complete as per specification as per the direction of Engineer in charge	Sqm	7491 31	130 00	973870.76	7377.81	130.00	959115.14	0.00	130.00	0.00	7377.81	959115.14	0.00	14755.62	
72	Supplying and fixing new Mangalore tiles on existing reepers as per the direction of Engineer in charge	Sqm	113 50	425 00	48239.52	113.50	425.00	48239.52	0.00	425.00	0.00	113.50	48239.52	0.00	0.00	

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Tender Item No.	Unit	As per BOQ			d beyond tender quantity up to 125%		Executed over & above 125% of tender quantity			As per actuals/Anticipated		Excess	Savings	Remarks
		Qty	Rate	An	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Amount	Amount	
...ing and fixing polished grey granite slab benches of size 5 feet width of seating slab with bottom slab ...of 75mm th with 1 5 feet width with two stands strong base with back slab (support) machine cutting top ...slab narrow polish with 50 mm Th. with 1 5 feet depth side slab of 100 mm th 2 5 feet height including bull ...ishing of all edges, fixing in CC 1 2 4 including loading & unloading and with all lead and lift etc., complete ...and removing the work as per the direction of Engineer-in-charge of the work as per the direction of Engineer in charge	Sqm	18.00	10500.00	189	10500.00	189000.00	0.00	10500.00	0.00	18.00	189000.00	0.00	0.00	
...the Projects as per the direction of Engineer in charge	Sqm	2.00	159995.00	319990.00	159995.00	319990.00	0.00	159995.00	0.00	2.00	319990.00	0.00	0.00	
				95786553.10		85549446.54			8399992.36			12386926.85	13033434.21	
Amount as per Schedule "B"		95786553.10			Amount as per Execution				9,39,49,438.90		9,39,49,438.90			
					ERL Amount				18,35,308.00					
Total Rs		95786553.10			Total Execution Cost				9,57,84,746.90					
Savings		13033434.21												
Excess		12386926.85			Total Execution Cost				9,57,84,746.90					

"Here by work's slip amount Rs: 12,38,926.85/- [Rs One crore twenty three lakhs eighty six thousand nine hundred twenty six only] is approved"

Assistant Engineer
Ward No 17
BBMP, Bangalore

Contractor / Representative

Asst Executive Engineer

Consultant / Representative

Executive Engineer
RR Nagara Division
BBMP, Bangalore

work slip is approved

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